



PATENT
ATTORNEY DOCKET NO. 041514-5130

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
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Masakazu OGASAWARA)
)
Application No.: 09/891,471)
)
Filed: 6/27/01)
)
Title: Pickup Device For Recording Or)
Reproducing Information To And From A Multi-
Layered Recording Medium)

Commissioner for Patents
Alexandria, VA 22314

Sir:

**SUBMISSION OF REVOCATION OF ORIGINAL POWER OF ATTORNEY
AND GRANT OF NEW POWER OF ATTORNEY**

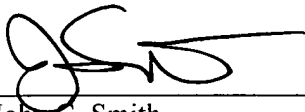
Enclosed is a copy of the Revocation of Original Power of Attorney and Grant of New Power of Attorney by the Assignee.

If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: October 24, 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignee: PIONEER CORPORATION

Commissioner for Patents
Washington, D.C. 20231

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), PIONEER CORPORATION, a Japanese corporation, certifies that it is an assignee of the patent applications and issued patents identified in the following chart by virtue of respective Assignment documents for each listed application and patent from the inventor(s) to PIONEER CORPORATION submitted to the U.S. Patent and Trademark Office.

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 06/10/94 | 04478/041001 | 08/258,104 | 5,521,730 | 05/28/96 | 07/11/1994; 007077/0197 |
| 03/15/95 | 04478/046001 | 08/404,632 | 5,521,750 | 05/28/96 | 05/02/1995; 007550/0562 |
| 12/15/95 | 04478/052001 | 08/573,398 | 5,614,687 | 03/25/97 | 12/15/1995; 007807/0046 |
| 03/28/96 | 04478/058001 | 08/623,558 | 5,684,773 | 11/04/97 | 03/28/1996; 007946/0825 |
| 07/01/96 | 04478/061001 | 08/675,317 | 5,702,792 | 12/30/97 | 07/01/1996; 008074/0586 |
| 08/28/96 | 04478/063001 | 08/697,833 | 5,716,761 | 02/10/98 | 10/17/1996; 008211/0810 |
| 06/04/97 | 04478/071001 | 08/869,010 | 6,025,743 | 02/15/00 | 09/02/1997; 008695/0395 |
| 07/12/95 | 041514-5001 | 08/501,463 | 5,673,359 | 09/30/97 | 07/12/1995; 007608/0810 |
| 03/13/97 | 041514-5003-01 | 08/816,883 | 5,703,437 | 12/30/97 | Not available |
| 11/09/95 | 041514-5005 | 08/556,051 | 5,608,698 | 03/04/97 | 02/23/1996; 007826/0808 |
| 07/07/97 | 041514-5006-01 | 08/889,177 | 5,751,690 | 05/12/98 | 09/23/2003; 014515/0078 |
| 12/19/95 | 041514-5007 | 08/575,080 | 5,748,607 | 05/05/98 | 12/19/1995; 007819/0224 |
| 12/27/95 | 041514-5010 | 08/537,492 | 5,721,580 | 02/24/98 | 04/02/1996; 007872/0646 |
| 12/29/95 | 041514-5011 | 08/581,382 | 5,666,340 | 09/09/97 | 03/28/1996; 007868/0925 |
| 02/14/96 | 041514-5012 | 08/599,963 | 5,742,243 | 04/21/98 | 04/18/1996; 007898/0248 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 2/21/96 | 041514-5014 | 08/604,310 | 5,684,771 | 11/04/97 | 04/23/1996; 007960/0076 |
| 03/27/96 | 041514-5015 | 08/624,894 | 5,722,184 | 03/03/98 | 05/22/1996; 007970/0496 |
| 03/22/96 | 041514-5016 | 08/620,612 | 5,745,460 | 04/28/98 | 04/23/1996; 007907/0616 |
| 06/04/96 | 041514-5017-03 | 08/658,106 | 6,304,286 | 11/14/00 | 08/01/1996; 008061/0338 |
| 08/28/96 | 041514-5018 | 08/705,854 | 5,742,567 | 04/21/98 | 09/23/03; 014515/0078 |
| 08/30/96 | 041514-5019 | 08/697,838 | 5,805,548 | 09/08/98 | 10/18/1996; 008181/0674 |
| 10/02/96 | 041514-5020 | 08/725,037 | 6,020,865 | 02/01/00 | 11/26/1996; 008241/0366 |
| 10/02/96 | 041514-5021 | 08/725,038 | 6,064,357 | 05/16/00 | 11/14/1996; 008201/0527 |
| 11/22/96 | 041514-5022-01 | 08/754,479 | 5,982,104 | 11/09/99 | 02/07/1997; 008340/0480 |
| 11/25/96 | 041514-5023-01 | 08/754,931 | 5,982,414 | 11/09/99 | 02/07/1997; 008340/0553 |
| 12/10/96 | 041514-5026 | 08/763,317 | 5,820,961 | 10/13/98 | 12/10/1996; 008299/0709 |
| 04/23/97 | 041514-5028 | 08/839,184 | 6,148,037 | 12/14/00 | 09/30/1997; 008757/0806 |
| 05/14/97 | 041514-5029 | 08/856,483 | 5,815,536 | 09/29/98 | 05/14/1997; 008575/0581 |
| 08/01/97 | 041514-5030 | 08/905,080 | 6,167,008 | 12/26/00 | 08/01/1997; 009288/0481 |
| 09/19/97 | 041514-5031-01 | 08/951,212 | 6,219,324 | 04/17/01 | 03/25/1998; 009072/0585 |
| 09/02/97 | 041514-5033 | 08/921,468 | 5,886,506 | 03/23/99 | 04/20/1998; 009290/0561 |
| 09/05/97 | 041514-5034 | 08/923,950 | 5,963,184 | 10/05/99 | 02/03/1998; 008986/0034 |
| 10/28/97 | 041514-5035 | 08/959,616 | 6,118,644 | 09/12/00 | 10/28/1997; 008870/0781 |
| 02/11/98 | 041514-5036 | 09/021,938 | 6,084,841 | 07/04/00 | 02/11/1998; 008984/0660 |
| 01/22/98 | 041514-5037 | 09/010,537 | 5,946,277 | 08/31/99 | 06/15/1998; 009308/0209 |
| 05/14/98 | 041514-5038 | 09/078,133 | 6,144,155 | 11/07/00 | 08/04/1998; 009381/0098 |
| 05/14/98 | 041514-5039 | 09/078,138 | 6,147,443 | 11/14/00 | 08/04/1998; 009381/0104 |
| 05/22/98 | 041514-5040 | 09/083,443 | 6,014,060 | 01/11/00 | 05/22/1998; 009190/0569 |
| 07/16/98 | 041514-5041 | 09/116,442 | 6,195,072 | 02/27/01 | 10/06/1998; 009506/0483 |
| 07/07/98 | 041514-5042 | 09/110,383 | 6,211,865 | 04/03/01 | 09/28/1998; 009532/0905 |
| 06/30/98 | 041514-5043 | 09/107,996 | 6,297,788 | 10/02/01 | 09/16/1998; 009464/0865 |
| 07/21/98 | 041514-5044 | 09/119,658 | 6,262,699 | 07/17/01 | 10/16/1998; 009528/0151 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 08/07/98 | 041514-5045 | 09/131,340 | 6,184,612 | 02/06/01 | 10/30/1998; 009664/0641 |
| 04/04/01 | 041514-5046-01 | 09/131,339 | 6,316,873 | 11/13/01 | 11/16/1998; 009589/0769 |
| 08/07/98 | 041514-5047 | 09/131,224 | 6,400,070 | 06/04/02 | 10/27/1998; 009560/0229 |
| 08/07/98 | 041514-5048 | 09/131,225 | 6,278,230 | 08/21/01 | 10/29/1998; 011517/0379 |
| 08/07/98 | 041514-5049 | 09/131,222 | 6,066,922 | 05/23/00 | 11/16/1998; 010386/0576 |
| 06/26/98 | 041514-5050 | 09/105,269 | 6,151,280 | 11/21/00 | 10/23/1998; 009551/0860 |
| 06/26/98 | 041514-5051 | 09/104,930 | 6,101,157 | 08/08/00 | 10/21/1998; 009536/0192 |
| 10/06/98 | 041514-5052 | 09/166,529 | 6,134,211 | 10/17/00 | 12/17/1998; 009653/0875 |
| 12/23/98 | 041514-5053 | 09/219,779 | 6,259,198 | 07/10/01 | 03/03/1999; 009813/0238 |
| 1/8/99 | 041514-5054 | 09/227,532 | 6,522,608 | 02/18/03 | 01/08/99; 009700/0865 |
| 8/29/02 | 041514-5054-01 | 10/230,078 | 6,724,704 | 04/20/04 | 01/08/99; 009700/0865 |
| 8/29/02 | 041514-5054-02 | 10/230,354 | 6,757,228 | 06/29/04 | 01/08/99; 009700/0865 |
| 1/6/99 | 041514-5055 | 09/225,829 | 6,381,399 | 04/30/02 | 01/06/99; 009697/0653 |
| 3/16/99 | 041514-5056 | 09/270,657 | 6,674,695 | 01/06/04 | 06/01/99; 009995/0604 |
| 8/29/02 | 041514-5054-03 | 10/230,097 | 6,661,754 | 12/09/03 | 01/08/99; 009700/0865 |
| 03/18/99 | 041514-5057 | 09/270,827 | 6,292,503 | 09/18/01 | 06/04/1999; 009997/0537 |
| 7/20/01 | 041514-5057-01 | 09/908,560 | 6,573,116 | 06/03/03 | 06/04/99; 009997/0537 |
| 3/19/99 | 041514-5058 | 09/271,989 | 6,445,873 | 09/03/02 | 06/07/99; 010013/0616 |
| 7/31/02 | 041514-5058-01 | 10/207,845 | | | 06/07/99; 010013/0616 |
| 04/27/99 | 041514-5059 | 09/300,411 | 6,262,956 | 07/17/01 | 08/19/1999; 010176/0052 |
| 04/27/99 | 041514-5060 | 09/300,412 | 6,473,376 | 10/29/02 | 07/19/1999; 010105/0082 |
| 06/21/99 | 041514-5061-01 | 09/337,345 | 6,404,729 | 06/11/02 | 06/21/1999; 010057/0764 |
| 06/18/99 | 041514-5062 | 09/335,678 | 6,271,891 | 08/07/01 | 10/06/1999; 010289/0572 |
| 7/19/99 | 041514-5063 | 09/356,676 | 6,580,676 | 06/17/03 | 07/19/99; 010117/0609 |
| 07/08/99 | 041514-5064 | 09/349,918 | 6,122,248 | 09/19/00 | 07/08/1999; 010093/0083 |
| 07/28/99 | 041514-5065-01 | 09/362,198 | 6,404,124 | 06/11/02 | 07/28/1999; 010136/0399 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 10/20/99 | 041514-5066 | 09/421,250 | 6,483,988 | 11/19/02 | 01/04/00; 010475/0202 |
| 10/25/99 | 041514-5067 | 09/425,939 | 6,535,670 | 03/18/03 | 01/03/00; 010508/0906 |
| 10/25/99 | 041514-5068-01 | 09/425,940 | 6,605,227 | 08/12/03 | 01/19/00; 010493/0984 |
| 10/22/99 | 041514-5069 | 09/425,178 | 6,339,581 | 01/15/02 | 01/03/2000; 010507/0738 |
| 10/27/99 | 041514-5070 | 09/427,677 | 6,504,632 | 01/07/03 | 01/12/00; 010495/0134 |
| 3/2/00 | 041514-5071 | 09/517,721 | 6,552,703 | 04/22/03 | 05/15/00; 010790/0218 |
| 3/2/00 | 041514-5072 | 09/517,732 | 6,836,067 | 12/28/04 | 05/12/00; 010796/0386 |
| 03/17/00 | 041514-5073 | 09/531,126 | 6,312,547 | 11/06/01 | 08/01/2000; 010965/0653 |
| 4/10/00 | 041514-5074 | 09/546,282 | 6,552,984 | 04/22/03 | 08/07/00; 011010/0640 |
| 4/12/00 | 041514-5075 | 09/548,264 | 6,680,886 | 01/20/04 | 08/14/00; 011078/0883 |
| 4/12/00 | 041514-5076 | 09/548,263 | 6,690,632 | 02/10/04 | 08/17/00; 011008/0704 |
| 05/05/00 | 041514-5078 | 09/565,025 | 6,335,218 | 01/01/02 | 09/21/2000; 011098/0820 |
| 5/23/00 | 041514-5079 | 09/576,901 | 6,587,409 | 07/01/03 | 09/14/00; 011082/0062 |
| 05/25/00 | 041514-5080 | 09/577,626 | 6,295,256 | 09/25/01 | 10/27/2000; 011261/0829 |
| 6/1/00 | 041514-5081 | 09/584,783 | | | 09/22/00; 011104/0969 |
| 5/31/00 | 041514-5082 | 09/583,757 | 6,518,943 | 02/11/03 | 09/15/00; 011067/0989 |
| 6/20/00 | 041514-5083 | 09/597,094 | 6,496,165 | 12/17/02 | 10/27/00; 011258/0632 |
| 6/21/00 | 041514-5084 | 09/598,291 | 6,535,477 | 03/18/03 | 10/10/00; 011154/0089 |
| 1/21/03 | 041514-5084-01 | 10/347,225 | 6,785,220 | 08/31/04 | 10/10/00; 011154/0089 |
| 8/2/04 | 041514-5084-02 | 10/902,797 | | | 10/10/00; 011154/0089 |
| 06/27/00 | 041514-5085 | 09/604,170 | 6,456,006 | 09/24/02 | 12/04/2000; 011330/0385 |
| 7/7/00 | 041514-5086 | 09/610,690 | 6,545,972 | 04/08/03 | 10/27/00; 011258/0584 |
| 7/13/00 | 041514-5087 | 09/615,592 | 6,756,951 | 06/29/04 | 10/17/00; 011243/0336 |
| 9/7/00 | 041514-5088 | 09/657,163 | 6,594,631 | 07/15/03 | 12/22/00; 011386/0221 |
| 9/14/00 | 041514-5089 | 09/662,347 | 6,479,940 | 11/12/02 | 12/11/00; 011353/0010 |
| 09/19/00 | 041514-5090 | 09/665,075 | 6,449,095 | 09/10/02 | 12/11/2000; 011350/0599 |
| 10/11/00 | 041514-5091 | 09/685,600 | 6,741,543 | 05/25/04 | 02/02/01; 011488/0293 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 10/11/00 | 041514-5092 | 09/685,893 | 6,710,755 | 03/23/04 | 01/29/01; 011477/0177 |
| 10/05/00 | 041514-5093 | 09/679,814 | 6,380,689 | 04/30/02 | 12/22/2000; 011386/0414 |
| 10/27/00 | 041514-5094 | 09/697,737 | 6,667,727 | 12/23/03 | 02/05/01; 011492/0220 |
| 10/20/00 | 041514-5095 | 09/692,415 | | | 02/05/01; 011492/0271 |
| 10/25/00 | 041514-5096 | 09/695,424 | 6,381,202 | 04/30/02 | 02/15/2001; 011526/0602 |
| 11/9/00 | 041514-5097 | 09/708,855 | 6,731,276 | 05/04/04 | 03/26/01; 011639/0932 |
| 11/13/00 | 041514-5098 | 09/709,625 | | | 05/01/01; 011764/0608 |
| 12/18/00 | 041514-5100 | 09/738,950 | 6,714,495 | 03/30/04 | 03/30/01; 011654/0762 |
| 12/18/00 | 041514-5101 | 09/738,949 | 6,804,185 | 10/12/04 | 04/19/01; 011711/0915 |
| 12/20/00 | 041514-5102 | 09/739,646 | 6,628,599 | 09/30/03 | 03/14/01; 011588/0461 |
| 7/23/03 | 041514-5102-01 | 10/624,929 | | | 03/14/01; 011588/0461 |
| 3/27/01 | 041514-5103 | 09/817,246 | | | 04/10/01; 011680/0027 |
| 1/5/01 | 041514-5104 | 09/754,253 | 6,744,063 | 06/01/04 | 11/25/02; 013529/0814 |
| 1/22/01 | 041514-5105 | 09/765,306 | 6,885,616 | 04/26/05 | 04/23/01; 011702/0779 |
| 1/29/01 | 041514-5106 | 09/770,673 | | | 07/23/01; 012006/0292 |
| 2/8/01 | 041514-5107 | 09/778,846 | 6,504,813 | 01/07/03 | 04/30/01; 011764/0662 |
| 2/8/01 | 041514-5108 | 09/778,847 | 6,625,105 | 09/23/03 | 05/07/01; 011778/0423 |
| 2/14/01 | 041514-5109 | 09/782,525 | 6,429,981 | 08/06/02 | 05/16/01; 011809/0399 |
| 2/27/01 | 041514-5110 | 09/793,729 | 6,646,962 | 11/11/03 | 05/07/01; 011778/0420 |
| 3/9/01 | 041514-5111 | 09/801,877 | 6,501,708 | 12/31/02 | 08/03/01; 012064/0694 |
| 3/9/01 | 041514-5112 | 09/801,873 | 6,628,587 | 09/30/03 | 08/03/01; 012058/0696 |
| 3/16/01 | 041514-5113 | 09/809,352 | 6,485,418 | 11/26/02 | 06/25/01; 011931/0985 |
| 03/22/01 | 041514-5114 | 09/813,898 | | | 07/03/2001; 011957/0951 |
| 3/23/01 | 041514-5115 | 09/815,338 | | | 07/09/01; 011961/0931 |
| 3/28/01 | 041514-5116 | 09/817,895 | | | 07/06/01; 011957/0545 |
| 4/8/05 | 041514-5116-01 | 11/101,558 | | | 07/06/01; 011957/0545 |
| 4/8/05 | 041514-5116-02 | 11/101,560 | | | 07/06/01; 011957/0545 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 4/8/05 | 041514-5116-03 | 11/101,596 | | | 07/06/01; 011957/0545 |
| 4/8/05 | 041514-5116-04 | 11/101,407 | | | 07/06/01; 011957/0545 |
| 4/8/05 | 041514-5116-05 | 11/101,595 | | | 07/06/01; 011957/0545 |
| 4/16/01 | 041514-5117 | 09/835,097 | | | 09/10/01; 012143/0154 |
| 4/18/01 | 041514-5118 | 09/836,456 | 6,560,173 | 05/06/03 | 08/06/01; 012057/0904 |
| 4/18/01 | 041514-5119 | 09/836,533 | 6,788,633 | 09/07/04 | 07/10/01; 011969/0624 |
| 5/16/01 | 041514-5120 | 09/855,753 | 6,873,586 | 03/29/05 | 09/10/01; 012157/0106 |
| 6/4/01 | 041514-5121 | 09/871,702 | 6,807,276 | 10/19/04 | 10/02/01; 012227/0656 |
| 6/21/01 | 041514-5122 | 09/885,286 | | | 10/04/01; 012224/0831 |
| 6/19/01 | 041514-5124 | 09/883,494 | 6,876,871 | 04/05/05 | 10/04/01; 012231/0113 |
| 6/21/01 | 041514-5126 | 09/885,526 | 6,690,500 | 02/10/04 | 10/09/01; 012249/0880 |
| 6/28/01 | 041514-5127 | 09/892,787 | | | 10/10/01; 012245/0625 |
| 6/28/01 | 041514-5128 | 09/892,791 | | | 10/10/01; 012245/0691 |
| 6/27/01 | 041514-5129 | 09/893,731 | 6,679,430 | 01/20/04 | 10/22/01; 012271/0692 |
| 11/3/03 | 041514-5129-01 | 10/698,422 | | | 10/22/01; 012271/0692 |
| 6/27/01 | 041514-5130 | 09/891,471 | | | 10/10/01; 012245/0681 |
| 7/3/01 | 041514-5131 | 09/897,413 | 6,542,454 | 04/01/03 | 10/19/01; 012271/0251 |
| 7/5/01 | 041514-5132 | 09/898,488 | 6,618,350 | 09/09/03 | 10/12/01; 012245/0919 |
| 6/2/03 | 041514-5132-01 | 10/449,026 | 6,837,072 | 01/04/05 | 10/12/01; 012245/0919 |
| 4/5/01 | 041514-5133 | 09/898,489 | | | 10/19/01; 012267/0113 |
| 8/3/01 | 041514-5134 | 09/921,308 | 6,865,144 | 03/08/05 | 11/05/01; 012298/0616 |
| 8/8/01 | 041514-5135 | 09/923,804 | 6,687,214 | 02/03/04 | 11/06/01; 012298/0782 |
| 08/10/01 | 041514-5136 | 09/925,960 | | | 11/06/2001; 012298/0631 |
| 8/24/01 | 041514-5138 | 09/935,640 | 6,650,026 | 11/18/03 | 11/06/01; 012298/0587 |
| 8/21/01 | 041514-5139 | 09/933,118 | 6,643,238 | 11/4/03 | 11/05/01; 012298/0657 |
| 8/29/01 | 041514-5140 | 09/940,675 | 6,529,339 | 03/04/03 | 11/30/01; 012334/0439 |
| 8/29/01 | 041514-5141 | 09/940,676 | 6,791,917 | 09/14/04 | 12/05/01; 012342/0868 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 08/29/01 | 041514-5142 | 09/940,693 | 6,510,130 | 01/21/03 | 11/05/2001; 012298/0597 |
| 9/4/01 | 041514-5143 | 09/944,098 | | | 12/04/01; 012344/0154 |
| 9/10/01 | 041514-5144 | 09/948,785 | 6,656,560 | 12/2/03 | 12/07/01; 012357/0123 |
| 10/1/03 | 041514-5144-01 | 10/674,461 | | | 12/07/01; 012357/0123 |
| 10/9/01 | 041514-5145 | 09/972,040 | 6,650,970 | 11/18/03 | 12/19/01; 012387/0185 |
| 10/5/01 | 041514-5147 | 09/971,110 | | | 12/27/01; 012403/0192 |
| 10/10/01 | 041514-5148 | 09/973,071 | 6,590,990 | 07/08/03 | 01/11/02; 012472/0143 |
| 10/10/01 | 041514-5149 | 09/973,073 | | | 01/04/02; 012429/0513 |
| 10/22/01 | 041514-5151 | 09/982,982 | | | 01/14/02; 012470/0513 |
| 10/29/01 | 041514-5152 | 09/984,251 | 6,882,615 | 04/19/05 | 01/28/02; 012522/0440 |
| 2/15/05 | 041514-5152-01 | 11/057,597 | | | 01/28/02; 012522/0440 |
| 11/6/01 | 041514-5153 | 09/985,953 | 6,590,857 | 07/08/03 | 02/04/02; 012554/0339 |
| 2/8/00 | 041514-5154 | 09/497,694 | 6,329,667 | 12/11/01 | 05/09/00; 010775/0009 |
| 11/16/01 | 041514-5154-01 | 09/987,948 | 6,537,839 | 03/25/03 | 02/27/02; 012618/0826 |
| 11/20/01 | 041514-5155 | 09/988,813 | 6,667,947 | | 02/04/02; 012554/0287 |
| 10/13/94 | 041514-5156 | 08/322,353 | 5,754,874 | 05/19/98 | 09/23/2003; 014515/0110 |
| 12/12/96 | 041514-5157 | 08/766,591 | 5,766,354 | 06/16/98 | 12/12/1996; 008356/0669 |
| 12/14/92 | 041514-5158 | 07/990,168 | 5,331,582 | 07/19/94 | 02/03/1993; 006440/0201 |
| 12/3/01 | 041514-5159 | 09/999,194 | | | 03/08/02; 012679/0584 |
| 12/3/01 | 041514-5160 | 09/999,195 | 6,594,091 | 7/15/03 | 02/08/02; 012576/0281 |
| 12/4/01 | 041514-5161 | 10/000,809 | | | 02/26/02; 012657/0359 |
| 12/10/01 | 041514-5162 | 10/006,987 | | | 02/28/02; 012637/0232 |
| 12/12/01 | 041514-5163 | 10/012,366 | | | 09/23/03; 014516/0190 |
| 12/13/01 | 041514-5164 | 10/013,955 | | | 03/11/02; 012689/0866 |
| 12/21/01 | 041514-5165 | 10/024,602 | 6,775,085 | 08/10/04 | 04/15/2002; 012800/0932 |
| 07/22/04 | 041514-5165-01 | 10/895,949 | | | 09/23/03; 014516/0190 |
| 12/20/01 | 041514-5166 | 10/022,843 | | | 03/19/02; 012710/0157 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 6/29/00 | 041514-5167 | 09/606,170 | 6,348,754 | 02/19/02 | 09/05/00; 011047/0418 |
| 1/14/02 | 041514-5167-01 | 10/043,177 | 6,510,597 | 01/28/03 | 09/05/00; 011047/0418 |
| 12/10/99 | 041514-5168 | 09/458,028 | 6,353,582 | 03/05/02 | 03/06/2000; 010594/0683 |
| 09/13/99 | 041514-5169 | 09/394,503 | 6,392,966 | 05/21/02 | 11/05/1999; 010364/0992 |
| 8/16/02 | 041514-5170-01 | 09/414,034 | 6,504,808 | 01/07/03 | 04/03/00; 010940/0886 |
| 12/16/02 | 041514-5170-02 | 10/319,537 | 6,671,245 | 12/30/03 | 04/03/00; 010940/0886 |
| 3/1/00 | 041514-5171 | 09/516,731 | 6,748,001 | 06/08/04 | 05/19/00; 010803/0859 |
| 8/6/01 | 041514-5172 | 09/921,597 | 6,687,604 | 02/03/04 | 11/01/01; 012294/0042 |
| 3/4/99 | 041514-5173 | 09/262,352 | 6,658,054 | 12/02/03 | 05/11/99; 009952/0756 |
| 1/10/03 | 041514-5174-01 | 09/379,636 | 6,807,571 | 10/19/04 | 10/26/99; 010369/0506 |
| 7/23/97 | 041514-5176 | 08/899,334 | 5,859,818 | 01/12/99 | 07/23/97; 008653/0605 |
| 12/2/93 | 041514-5177-01 | 08/160,289 | 5,457,475 | 10/10/95 | Not Available |
| 03/23/00 | 041514-5178 | 09/533,763 | 6,301,028 | 10/09/01 | 07/20/2000; 010976/0343 |
| 4/25/00 | 041514-5179 | 09/557,616 | 6,552,751 | 4/22/03 | 08/29/00; 011038/0292 |
| 6/30/00 | 041514-5182 | 09/607,336 | | | 10/20/00; 011174/0715 |
| 11/28/00 | 041514-5183 | 09/723,281 | 6,842,194 | 01/11/05 | 05/02/01; 011760/0425 |
| 06/30/00 | 041514-5182-01 | 11/188,775 | | | |
| 12/2/93 | 041514-5184 | 08/160,254 | 5,459,593 | 10/17/95 | 01/26/94; 6839/0956 |
| 1/2/00 | 041514-5185 | 09/704,063 | 6,480,456 | 11/12/02 | 02/12/01; 011512/0379 |
| 7/24/00 | 041514-5186 | 09/624,194 | 6,707,438 | 03/16/04 | 10/20/00; 011174/0707 |
| 12/5/03 | 041514-5186-01 | 10/727,630 | | | 10/20/00; 011174/0707 |
| 12/01/99 | 041514-5187 | 09/452,123 | 6,252,495 | 06/26/01 | 12/01/1999; 010431/0635 |
| 03/04/99 | 041514-5188 | 09/262,353 | 6,278,675 | 08/21/01 | 05/11/1999; 009941/0089 |
| 9/7/03 | 041514-5189 | 09/656,953 | | | 11/14/00; 011309/0921 |
| 01/24/01 | 041514-5191 | 09/768,004 | 6,493,158 | 12/10/02 | 05/14/2001; 011785/0247 |
| 3/30/96 | 041514-5192 | 08/040,276 | 5,512,919 | 04/30/96 | 05/30/93; 6517/555/556 |
| 3/24/03 | 041514-5193- | 09/492,296 | 6,618,346 | 09/09/03 | 04/25/00; 010726/0933 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| | 01 | | | | |
| 08/16/93 | 041514-5195 | 08/106,698 | 5,455,817 | 10/03/95 | 08/16/1993; 006669/0688 |
| 06/13/00 | 041514-5198 | 09/593,791 | | | |
| 10/25/00 | 041514-5200 | 09/695,050 | | | 01/22/01; 011718/0656 |
| 9/17/01 | 041514-5202 | 09/953,453 | 6,594,221 | 07/15/03 | 02/13/02; 012595/0623 |
| 9/28/00 | 041514-5204 | 09/671,601 | 6,813,508 | 11/2/04 | 01/04/01; 011399/0773 |
| 3/8/01 | 041514-5205 | 09/801,055 | 6,906,686 | 06/14/05 | 05/23/01; 011827/0989 |
| 3/29/01 | 041514-5206 | 09/820,284 | 6,597,442 | 07/22/03 | 06/29/01; 011945/0718 |
| 3/8/01 | 041514-5208 | 09/801,053 | 6,771,231 | 08/03/04 | 05/23/01; 011827/0977 |
| 6/21/00 | 041514-5209 | 09/598,222 | 6,670,079 | 12/30/03 | 09/13/00; 011174/0835 |
| 10/4/01 | 041514-5210 | 09/969,735 | 6,806,852 | 10/19/04 | 01/08/02; 012457/0624 |
| 1/14/02 | 041514-5211 | 10/043,260 | | | 04/15/02; 012801/0057 |
| 1/14/02 | 041514-5212 | 10/043,287 | | | 04/10/02; 012780/0466 |
| 1/11/02 | 041514-5214 | 10/042,396 | 6,870,800 | 03/22/05 | 03/29/02; 012742/0381 |
| 1/14/02 | 041514-5215 | 10/043,259 | 6,891,783 | 05/10/05 | 04/03/02; 012770/0359 |
| 01/13/92 | 041514-5218 | 07/819,987 | 5,578,948 | 11/26/96 | 01/13/1992; 005987/0309 |
| 09/07/94 | 041514-5219-01 | 08/302,376 | 5,532,992 | 07/02/96 | Not Available |
| 3/26/93 | 041514-5221 | 08/037,101 | 5,374,489 | 12/20/94 | 05/21/93; 006544/0485 |
| 02/06/91 | 041514-5223 | 07/651,605 | 5,161,033 | 11/03/92 | 02/06/1991; 005599/0725 |
| 03/15/93 | 041514-5225 | 08/032,209 | 5,262,774 | 11/16/93 | Not Available |
| 06/24/92 | 041514-5228 | 07/903,165 | 5,250,928 | 10/05/93 | 09/23/03; 014515/0110 |
| 9/18/01 | 041514-5229 | 09/954,221 | | | 02/13/02; 012608/0104 |
| 8/27/01 | 041514-5230 | 09/938,828 | | | 01/28/02; 012522/0491 |
| 8/23/01 | 041514-5231 | 09/935,054 | 6,828,936 | 12/07/04 | 03/21/02; 012710/0141 |
| 3/23/00 | 041514-5232 | 09/651,739 | 6,414,762 | 07/02/02 | 12/06/00; 011921/0152 |
| 02/10/95 | 041514-5233 | 08/386,494 | 5,546,220 | 08/13/96 | 03/22/1995; 007404/0447 |
| 07/25/97 | 041514-5235 | 08/900,171 | 5,982,804 | 11/09/99 | 07/25/1997; 008687/0423 |
| 09/21/99 | 041514-5235- | 09/399,768 | 6,291,256 | 09/18/01 | 07/25/1997; 008687/0423 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| | 01 | | | | |
| 04/23/97 | 041514-5236 | 08/838,994 | 5,953,585 | 09/14/99 | 04/23/1997; 008538/0768 |
| 03/07/97 | 041514-5237 | 08/813,211 | 5,894,189 | 04/13/99 | 07/08/1997; 008617/0647 |
| 03/26/97 | 041514-5238 | 08/824,439 | 6,049,654 | 04/11/00 | 03/26/1997; 008475/0711 |
| 04/23/97 | 041514-5239 | 08/838,926 | 6,009,070 | 12/28/99 | 04/23/1997; 008528/0780 |
| 11/16/99 | 041514-5241 | 09/441,202 | 6,567,059 | 05/20/03 | 02/22/2000; 010562/0857 |
| 1/23/02 | 041514-5242 | 10/052,568 | 6,801,489 | 10/05/04 | 04/10/2002; 012798/0349 |
| 2/8/02 | 041514-5243 | 10/067,981 | | | 04/15/2002; 012800/0912 |
| 7/25/94 | 041514-5245-01 | 08/279,815 | 5,399,936 | 03/21/95 | Not Available |
| 07/15/96 | 041514-5250 | 08/680,041 | 5,736,815 | 04/07/98 | 07/15/1996; 008142/0337 |
| 02/13/96 | 041514-5251 | 08/600,659 | 5,650,988 | 07/22/97 | 05/13/1996; 008130/0331 |
| 01/23/96 | 041514-5253 | 08/590,304 | 5,799,046 | 08/25/98 | 03/15/1996; 007842/0913 |
| 2/28/02 | 041514-5254 | 10/084,668 | 6,836,458 | 12/28/04 | 05/22/2002; 012921/0676 |
| 3/6/02 | 041514-5255 | 10/091,345 | 6,720,056 | 04/13/04 | 06/05/2002; 012979/0325 |
| 3/18/02 | 041514-5256 | 10/098,619 | | | 06/24/2002; 013030/0963 |
| 3/25/02 | 041514-5257 | 10/104,064 | | | 06/21/2002; 013027/0039 |
| 4/2/02 | 041514-5260 | 10/112,766 | | | 04/02/2002; 012781/0257 |
| 5/13/02 | 041514-5261 | 10/142,958 | | | 05/13/2002; 012895/0102 |
| 5/17/02 | 041514-5262 | 10/147,050 | | | 08/05/2002; 013137/0439 |
| 5/22/02 | 041514-5263 | 10/152,073 | | | 05/22/2002; 012923/0068 |
| 05/28/02 | 041514-5264 | 10/154,926 | 6,922,180 | 07/26/05 | 05/28/2002; 012940/0316 |
| 6/11/02 | 041514-5266 | 10/165,953 | | | 06/11/2002; 012987/0801 |
| 12/18/92 | 041514-5267 | 07/992,648 | 5,822,775 | 10/13/98 | 02/18/1993; 006455/0861 |
| 06/02/93 | 041514-5268 | 08/071,014 | 5,355,175 | 10/11/94 | 07/06/1993; 006623/0318 |
| 10/24/96 | 041514-5269 | 08/736,609 | 5,825,248 | 10/20/98 | 01/08/1997; 008318/0841 |
| 12/17/96 | 041514-5270 | 08/766,362 | 5,827,593 | 10/27/98 | 12/17/1996; 008804/0778 |
| 05/24/96 | 041514-5271 | 08/653,160 | 5,828,181 | 10/27/98 | 07/03/1996; 008020/0274 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 7/15/02 | 041514-5272 | 10/193,991 | | | 07/16/2002; 013103/0012 |
| 7/16/02 | 041514-5273 | 10/195,438 | | | 07/16/2002; 013114/0055 |
| 7/22/02 | 041514-5274 | 10/199,706 | | | 07/22/2002; 013131/0525 |
| 07/25/02 | 041514-5275 | 10/201,923 | | | |
| 9/24/02 | 041514-5276 | 10/252,373 | | | 09/24/2002; 013322/0428 |
| 9/24/02 | 041514-5277 | 10/252,403 | 6,680,683 | 01/20/04 | 09/24/2002; 013327/0855 |
| 9/13/02 | 041514-5279 | 10/242,766 | 6,798,145 | 09/28/04 | 09/13/2002; 013294/0664 |
| 9/20/02 | 041514-5280 | 10/247,680 | | | 09/20/2002; 013317/0878 |
| 9/23/02 | 041514-5281 | 10/252,008 | | | 12/10/2002; 013571/0652 |
| 10/16/02 | 041514-5282 | 10/257,719 | | | 10/16/2002; 013407/0677 |
| 11/18/02 | 041514-5283 | 10/295,860 | | | 11/18/2002; 013515/0160 |
| 12/9/02 | 041514-5284 | 10/314,256 | 6,870,521 | 03/22/05 | 09/23/2003; 014516/0190 |
| 11/27/02 | 041514-5285 | 10/304,854 | | | 11/27/2002; 013538/0891 |
| 12/9/02 | 041514-5286 | 10/314,258 | | | 12/09/2002; 013561/0418 |
| 12/17/02 | 041514-5287 | 10/320,414 | 6,844,043 | 01/18/05 | 12/17/2002; 013594/0067 |
| 12/16/02 | 041514-5288 | 10/319,698 | | | 02/11/2004; 014994/0169 |
| 12/19/02 | 041514-5289 | 10/322,755 | | | 04/01/2003; 013909/0922 |
| 12/14/94 | 041514-5290 | 08/356,052 | 5,452,273 | 09/19/95 | Not Available |
| 1/29/03 | 041514-5291 | 10/352,996 | | | 01/29/2003; 013722/0565 |
| 10/15/92 | 041514-5292 | 07/961,506 | 5,429,884 | 07/04/95 | 10/15/1992; 006295/0360 |
| 3/12/03 | 041514-5293 | 10/385,690 | | | 03/21/2003; 013870/0744 |
| 4/8/03 | 041514-5294 | 10/408,652 | | | 07/14/2003; 014269/0943 |
| 4/25/03 | 041514-5295 | 10/422,761 | | | 04/25/2003; 014006/0954 |
| 5/13/03 | 041514-5296 | 10/436,368 | 6,841,218 | 01/11/05 | 07/14/2003; 014286/0506 |
| 5/19/03 | 041514-5297 | 10/440,376 | | | 05/19/2003; 014092/0554 |
| 5/21/03 | 041514-5298 | 10/442,110 | | | 05/21/2003; 014104/0578 |
| 6/6/03 | 041514-5299 | 10/455,477 | | | 06/06/2003; 014161/0313 |
| 6/6/03 | 041514-5300 | 10/455,726 | | | 06/06/2003; 014161/0904 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 6/14/95 | 041514-5301 | 08/490,357 | 5,666,460 | 09/09/97 | 09/23/2003; 014515/0078 |
| 10/14/93 | 041514-5302 | 08/135,997 | 5,475,440 | 12/12/95 | 09/23/2003; 014515/0110 |
| 7/10/03 | 041514-5303 | 10/616,501 | | | 10/31/2003; 014650/0343 |
| 7/17/03 | 041514-5304 | 10/620,436 | | | 07/17/2003; 014310/0793 |
| 8/8/03 | 041514-5305 | 10/636,709 | | | 08/08/2003; 014378/0924 |
| 9/3/03 | 041514-5306 | 10/653,428 | | | 01/16/2004; 014906/0305 |
| 09/05/03 | 041514-5307 | 10/655,584 | | | 01/21/2004; 014925/0127 |
| 9/9/03 | 041514-5308 | 10/657,697 | | | 02/02/2004; 014954/0891 |
| 9/29/03 | 041514-5309 | 10/672,076 | 6,873,117 | 03/29/05 | 02/13/2004; 014985/0412 |
| 10/7/03 | 041514-5310 | 10/679,503 | 6,856,083 | 02/15/05 | 03/04/2004; 015049/0649 |
| 10/17/03 | 041514-5311 | 10/686,780 | | | 03/01/2004; 015038/0438 |
| 10/17/03 | 041514-5312 | 10/686,742 | | | 10/17/2003; 014618/0527 |
| 11/5/03 | 041514-5313 | 10/701,080 | | | 03/02/2004; 015032/0056 |
| 12/3/03 | 041514-5314 | 10/725,502 | | | 12/03/2003; 014767/0793 |
| 12/2/03 | 041514-5315 | 10/724,902 | | | 12/02/2003; 014767/0561 |
| 12/2/03 | 041514-5316 | 10/724,896 | | | 12/02/2003; 014767/0558 |
| 12/12/03 | 041514-5317 | 10/733,290 | | | 12/12/2003; 014813/0168 |
| 12/12/03 | 041514-5318 | 10/733,304 | | | 12/12/2003; 014817/0223 |
| 1/20/04 | 041514-5319 | 10/759,161 | | | 01/20/2004; 014904/0639 |
| 2/13/04 | 041514-5320 | 10/777,213 | | | 07/02/2004; 015528/0113 |
| 3/16/04 | 041514-5321 | 10/489,671 | | | 03/16/2004; 015671/0218 |
| 3/2/04 | 041514-5322 | 10/790,195 | | | 03/02/2004; 015052/0711 |
| 3/2/04 | 041514-5323 | 10/789,993 | | | 03/02/2004; 015034/0322 |
| 3/15/04 | 041514-5324 | 10/489,704 | | | 03/15/2004; 015738/0054 |
| 3/11/04 | 041514-5325 | 10/797,573 | | | 07/21/2004; 015591/0263 |
| 3/15/04 | 041514-5326 | 10/489,703 | | | 03/15/2004; 015671/0195 |
| 03/12/04 | 041514-5327 | 10/798,974 | | | 03/26/2004; 015609/0579 |
| 5/24/04 | 041514-5328 | 10/496,465 | | | 05/24/2004; 015710/0791 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 3/23/04 | 041514-5329 | 10/806,449 | | | 03/23/2004; 015125/0758 |
| 04/29/04 | 41514-5330 | 10/834,234 | | | |
| 6/10/04 | 041514-5331 | 10/864,770 | | | 10/01/2004; 015854/0685 |
| 6/16/04 | 041514-5333 | 10/868,034 | | | 06/16/2004; 015476/0902 |
| 6/16/04 | 041514-5334 | 10/868,185 | | | 10/08/2004; 015879/0991 |
| 6/29/04 | 041514-5335 | 10/878,675 | | | 10/13/2004; 015890/0807 |
| 6/29/04 | 041514-5336 | 10/878,517 | | | 06/29/2004; 015526/0717 |
| 7/9/04 | 041514-5337 | 10/886,714 | | | 07/09/2004; 015569/0798 |
| 7/19/04 | 041514-5338 | 10/893,232 | | | 07/19/2004; 015586/0407 |
| 08/06/04 | 041514-5339 | 10/503,668 | | | 08/06/2004; 016382/0530 |
| 7/19/04 | 041514-5340 | 10/893,219 | | | 07/19/2004; 015586/0393 |
| 9/21/04 | 041514-5341 | 10/945,092 | | | 09/21/2004; 015821/0022 |
| 03/31/05 | 041514-5342 | 10/509,428 | | | |
| 05/13/05 | 041514-5343 | 10/508,857 | | | |
| 03/17/05 | 041514-5344 | 10/509,079 | | | |
| 10/13/04 | 041514-5345 | 10/962,514 | | | 10/13/2004; 015892/0479 |
| 9/30/04 | 041514-5346 | 10/953,287 | | | 09/30/2004; 015856/0339 |
| 08/28/97 | 041514-5347 | 08/919,355 | 6,225,987 | 05/01/01 | 01/15/1998; 009050/0712 |
| 9/28/04 | 041514-5348 | 10/950,559 | | | 09/28/2004; 015847/0691 |
| 9/28/04 | 041514-5349 | 10/950,556 | | | 09/28/2004; 015856/0314 |
| 09/28/04 | 041514-5350 | 10/950,684 | | | 01/12/2005; 016152/0642 |
| 10/13/04 | 041514-5351 | 10/962,531 | | | 10/13/2004; 015892/0308 |
| 10/06/04 | 041514-5352 | 10/958,639 | | | 01/14/2005; 016156/0251 |
| 10/08/04 | 041514-5353 | 10/960,283 | | | 01/24/2005; 016207/0214 |
| 12/21/01 | 041514-5354 | 10/028,237 | 6,882,327 | 04/19/05 | 12/21/2001; 012417/0686 |
| 2/13/02 | 041514-5355 | 10/365,971 | 6,847,339 | 01/25/05 | 12/17/2004; 015478/0218 |
| 04/25/02 | 041514-5356 | 10/131,048 | | | 04/25/2002; 012834/0676 |
| 01/05/01 | 041514-5357 | 09/755,696 | | | Assignment filed 07/29/05 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 07/29/04 | 041514-5358 | 10/901,752 | | | 07/29/2004; 015645/0957 |
| 07/27/04 | 041514-5359 | 10/899,649 | | | Assignment filed 07/29/05 |
| 05/22/01 | 041514-5360 | 09/862,918 | 6,888,517 | 05/03/05 | 05/22/2001; 011845/0814 |
| 04/22/02 | 041514-5361 | 10/126,583 | | | 04/22/2002; 012821/0273 |
| 06/08/01 | 041514-5362 | 09/877,293 | 6,765,621 | 07/20/04 | 06/08/2001; 011896/0888 |
| 05/31/01 | 041514-5363 | 09/871,436 | 6,806,911 | 10/19/04 | 05/31/2001; 011878/0991 |
| 12/17/01 | 041514-5364 | 10/022,629 | | | 12/17/2001; 012404/0588 |
| 09/24/03 | 041514-5365 | 10/669,549 | 6,833,824 | 12/21/04 | 12/15/2004; 015460/0617 |
| 09/24/03 | 041514-5365 | 10/669,549 | 6,833,824 | 12/21/04 | Assignment filed 07/29/05 |
| 02/23/01 | 041514-5366 | 09/791,530 | 6,819,046 | 11/16/04 | Assignment filed 07/29/05 |
| 12/20/00 | 041514-5367 | 09/739,789 | 6,922,191 | 07/26/05 | 03/26/2001; 011637/0257 |
| 11/23/01 | 041514-5368 | 09/992,052 | | | Assignment filed 07/29/05 |
| 05/29/01 | 041514-5369 | 09/867,098 | | | Assignment filed 07/29/05 |
| 07/07/00 | 041514-5371 | 09/612,120 | | | Assignment filed 07/29/05 |
| 07/12/02 | 041514-5372 | 10/194,542 | | | 09/04/2002; 013260/0557 |
| 7/24/03 | 041514-5373 | 10/625,877 | | | 07/24/2003; 014330/0470 |
| 11/16/04 | 041514-5374 | 10/988,535 | | | 11/16/2004; 016009/0459 |
| 11/08/01 | 041514-5375 | 10/008,856 | | | Assignment filed 07/29/05 |
| 11/23/04 | 041514-5377 | 10/995,089 | | | 02/14/2005; 016262/0957 |
| 05/09/00 | 041514-5378 | 09/567,344 | | | |
| 11/27/01 | 041514-5379 | 09/995,383 | 6,803,722 | 10/12/04 | Assignment filed 07/29/05 |
| 12/02/04 | 041514-5380 | 11/001,648 | | | 03/30/2005; 016407/0502 |
| 12/01/04 | 041514-5381 | 11/000,523 | | | 03/09/2005; 016348/0698 |
| 12/6/04 | 041514-5382 | 11/003,329 | | | 03/11/2005; 016354/0442 |
| 02/27/01 | 041514-5383 | 09/794,182 | | | Assignment filed 07/29/05 |
| 01/10/00 | 041514-5384 | 09/479,875 | 6,784,857 | 08/31/04 | Assignment filed 07/29/05 |
| 06/25/02 | 041514-5385 | 10/178,248 | 6,784,615 | 08/31/04 | Assignment filed 07/29/05 |
| 08/31/04 | 041514-5385-01 | 10/929,541 | | | Assignment filed 07/29/05 |

| Filing Date | Attorney Docket No. | Application No. | Patent No. | Issue Date | Recordation Info. Date; Reel/Frame |
|-------------|---------------------|-----------------|------------|------------|------------------------------------|
| 07/09/02 | 041514-5386 | 10/190,510 | 6,852,646 | 02/08/05 | Assignment filed 07/29/05 |
| 01/14/05 | 041514-5388 | 11/034,851 | | | 01/14/2005; 016192/0351 |
| 04/16/04 | 041514-5387-01 | 10/826,188 | | | Assignment filed 07/29/05 |
| 01/14/05 | 041514-5388 | 11/034,851 | | | 01/14/2005; 016192/00351 |
| 12/18/03 | 041514-5389 | 10/738,090 | | | Assignment filed 07/29/05 |
| 12/10/03 | 041514-5390 | 10/730,932 | 6,930,285 | 08/16/05 | Assignment filed 07/29/05 |
| 03/29/04 | 041514-5391 | 10/810,618 | | | Assignment filed 07/29/05 |
| 09/29/04 | 041514-5392 | 10/951,765 | | | Assignment filed 07/29/05 |
| 11/17/03 | 041514-5393 | 10/713,005 | | | Assignment filed 07/29/05 |
| 07/11/03 | 041514-5395 | 10/617,233 | | | Assignment filed 07/29/05 |
| 01/14/05 | 041514-5396 | 10/521,442 | | | |
| 01/12/05 | 041514-5397 | 11/033,958 | | | |
| 2/1/05 | 041514-5398 | 11/046,799 | | | |
| 02/28/05 | 041514-5399 | 11/067,603 | | | Assignment filed 07/29/05 |
| 03/07/05 | 041514-5400 | 11/072,648 | | | |
| 3/7/05 | 041514-5401 | 11/072,647 | | | 02/01/2005; 016243/0936 |
| 03/23/05 | 041514-5402 | 11/086,670 | | | |
| 03/15/05 | 041514-5403 | 11/079,537 | | | Assignment filed 07/29/05 |
| 03/24/05 | 041514-5404 | 11/089,130 | | | |
| 03/24/05 | 041514-5405 | 11/101,628 | | | Assignment filed 07/29/05 |
| 04/18/05 | 041514-5407 | 11/108,056 | | | |
| 4/27/05 | 041514-5408 | 10/532,967 | | | |
| 05/06/05 | 041514-5409 | 11/123,212 | | | |
| 06/02/05 | 041514-5411 | 11/142,670 | | | |
| 07/25/05 | 041514-5412 | 11/188,102 | | | |
| 03/18/05 | | 11/083,072 | | | |
| 03/23/05 | | 11/086,999 | | | |
| 03/24/05 | | 11/087,720 | | | |

The undersigned, whose title is supplied below, is empowered to act on behalf of assignee Pioneer Corporation.

Acting on behalf of assignee Pioneer Corporation, the undersigned hereby revokes all powers of attorney previously granted in these applications and patents and appoints:

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with full power of substitution and revocation, to prosecute the applications and to transact all business in the United States Patent and Trademark Office connected with these patent applications and issued patents.

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